

# 31837

## SEARCH REQUEST FORM

Access DB# \_\_\_\_\_

### Scientific and Technical Information Center

Requester's Full Name: L. E. Crane Examiner #: 65753 Date: 12/21/00  
Art Unit: 1623 Phone Number 305-4639 Serial Number: 09/371,747  
Mail Box and Bldg/Room Location: CM-1, 7E-12 Results Format Preferred (circle): PAPER DISK E-MAIL  
Office: CM-1: 8D-14

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Please see copy of claims attached

Inventors (please provide full names): "

Earliest Priority Filing Date: 08/10/98

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search for methods of treating hosts infected with hepatitis B by the administration of any L-2'-deoxyribonucleoside-nucleotide/ester-prodrug see the adenine L-nucleosides in claim 2 and the cytidine, uridine ~~xxxxxx~~ guanosine, inosine, thymidine analog based methods of treatment in claims 3-8. (See also the additional active ingredients of claim 10).

Please also search the compounds/compositions and prodrugs of 2'-deoxy-L-inosine (claims 1A-12

Point of Contact:  
Susan Hanley  
Technical Info. Specialist  
CM1 12C14 Tel: 305-4053

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STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: <u>1623</u>	NA Sequence (#)	STN
Searcher Phone #:	AA Sequence (#)	Dialog
Searcher Location:	Structure (#)	Questel/Orbit
Date Searcher Picked Up: <u>11/8</u>	Bibliographic	Dr. Link
Date Completed: <u>11/2</u>	Litigation	Lexis/Nexis
Searcher Prep & Review Time: <u>1:00</u>	Fulltext	Sequence Systems
Clerical Prep Time:	Patent Family	WWW/Internet
Online Time: <u>9:00</u>	Other	Other (specify)

\*\*\*\*\*

=> d his

(FILE 'HOME' ENTERED AT 16:43:38 ON 11 JAN 2001)

FILE 'REGISTRY' ENTERED AT 16:43:50 ON 11 JAN 2001  
ACT CRA747I/A

L1 105 SEA FILE=REGISTRY ABB=ON PLU=ON (160963-01-9/BI OR 170079-20-  
-----  
L2 STR  (pyrimidine or purine) ring  
L3 STR  parent set  
L4 153171 S OC4/ES(P)((NCNC2-NCNC3/ES) OR (NCNC3/ES))  
L5 6144 S L4 AND ERYTHRO?  
L6 STR L2  
L7 50 S L6 SSS SAM SUB=L4  
L8 58210 S L6 SSS FUL SUB=L4  
L9 STR subset #1 no stereochem  
L10 50 S L9 SSS SAM SUB=L8  
L11 STR L9  
L12 50 S L11 SSS SAM SUB=L8  
L13 STR L11  
L14 STR L13  
L15 1 S L14 SSS SAM SUB=L8  
L16 62 S L14 SSS FUL SUB=L8 subset #2 w/ stereochem  
L17 9 S L1 AND L16  
SAVE L16 CRA747S/A

FILE 'REGISTRY' ENTERED AT 17:59:21 ON 11 JAN 2001

FILE 'HCAPLUS' ENTERED AT 17:59:41 ON 11 JAN 2001

L18 80 S L16  
L19 1 S 2000:133703/AN  
L20 79 S L18 NOT L19  
L21 21 S L20 AND PY>1998  
L22 58 S L20 NOT L21

FILE 'REGISTRY' ENTERED AT 18:03:19 ON 11 JAN 2001

L23 0 S L16 AND VALIN?  
L24 0 S L16 AND INOSIN?  
E INOSIN/CN  
L25 STR L14  
L26 0 S L25 SSS SAM SUB=L16  
L27 STR L6  
L28 13 S L27 SSS SAM SUB=L8  
L29 268 S L27 SSS FUL SUB=L8 subset #3 w/ AA side chain (no stereochem)  
SAVE L29 CRA747Z1/A  
L30 0 S L29 AND L16  
L31 STR L14  
L32 0 S L31 SSS SAM SUB=L16 no L16 cpds have AA side chain  
L33 1 S L31 SSS FUL SUB=L16 1 cpd w/ inosine base

FILE 'HCAPLUS' ENTERED AT 18:22:05 ON 11 JAN 2001

L34 4 S L33  
L35 3 S L34 AND PY>1998 1 cite of inosine base  
L36 1 S L34 NOT L35  
L37 57 S L22 NOT L36  
L38 3 S L37 AND HEPATITIS  
L39 4 S L37(L)THU/RL  
L40 7 S L39 OR L38 7 cites  
L41 50 S L37 NOT L40

FILE 'REGISTRY' ENTERED AT 18:28:21 ON 11 JAN 2001

L42 0 S RIBAVARIN/CN  
E RIBAVARIN/CN  
L43 9 S E4-15  
L44 1 S 3TC/CN  
L45 1 S L-FMAU  
L46 1 S DAPD/CN  
L47 1 S FAMCICLOVIR/CN

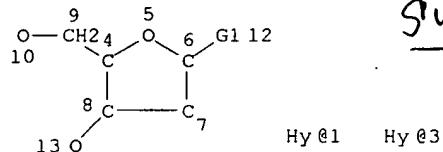
L48 1 S PENCICLOVIR/CN  
L49 0 S BM2-200475/CN  
L50 1 S PMEA/CN  
L51 0 S DIPIVOXIL/CN  
L52 1 S LOBUCAVIR/CN  
L53 1 S GANCICLOVIR/CN

FILE 'HCAPLUS' ENTERED AT 18:30:55 ON 11 JAN 2001  
L54 3888 S L43-53  
L55 2 S L54 AND L37 *2 cites*  
L56 49 S L41 NOT L55 *49 cites*  
L57 0 S L56 AND ANTI(W)VIRAL?

FILE 'USPATFULL' ENTERED AT 18:35:43 ON 11 JAN 2001  
L58 9 S L16 *9 patents*

=> d que 118

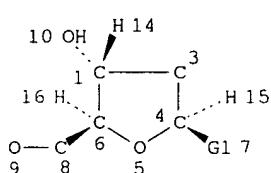
L4 153171 SEA FILE=REGISTRY ABB=ON PLU=ON OC4/ES(P)((NCNC2-NCNC3/ES))  
OR (NCNC3/ES))  
L6 STR



VAR G1=1/3  
NODE ATTRIBUTES:  
CONNECT IS E3 RC AT 4  
CONNECT IS E3 RC AT 6  
CONNECT IS E2 RC AT 7  
CONNECT IS E3 RC AT 8  
DEFAULT MLEVEL IS ATOM  
GGCAT IS MCY UNS AT 1  
GGCAT IS PCY UNS AT 3  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS E4 C E2 N AT 1  
ECOUNT IS E5 C E4 N AT 3

GRAPH ATTRIBUTES:  
RSPEC I  
NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE  
L8 58210 SEA FILE=REGISTRY SUB=L4 SSS FUL L6  
L14 STR



VAR G1=11/13  
NODE ATTRIBUTES:  
CONNECT IS E3 RC AT 1  
CONNECT IS E2 RC AT 3  
CONNECT IS E3 RC AT 4  
CONNECT IS E3 RC AT 6  
DEFAULT MLEVEL IS ATOM  
GGCAT IS MCY UNS AT 11  
GGCAT IS PCY UNS AT 13  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS E4 C E2 N AT 11  
ECOUNT IS E5 C E4 N AT 13

GRAPH ATTRIBUTES:  
RSPEC I  
NUMBER OF NODES IS 14

STEREO ATTRIBUTES:  
STEREO DEFAULT ABSOLUTE  
NUMBER OF CHIRAL CENTERS IS 3

REYES 09/371,747

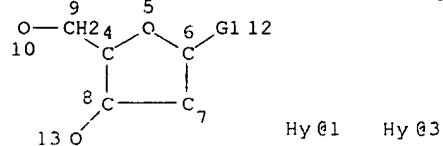
L16 62 SEA FILE=REGISTRY SUB=L8 SSS FUL L14  
L18 80 SEA FILE=HCAPLUS ABB=ON PLU=ON L16

=> d que 130

L4 153171 SEA FILE=REGISTRY ABB=ON PLU=ON OC4/ES(P)((NCNC2-NCNC3/ES)  
OR (NCNC3/ES))

L6 STR

Subset #1



VAR G1=1/3

NODE ATTRIBUTES:

CONNECT IS E3 RC AT 4

CONNECT IS E3 RC AT 6

CONNECT IS E2 RC AT 7

CONNECT IS E3 RC AT 8

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 1

GGCAT IS PCY UNS AT 3

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E4 C E2 N AT 1

ECOUNT IS E5 C E4 N AT 3

GRAPH ATTRIBUTES:

RSPEC I

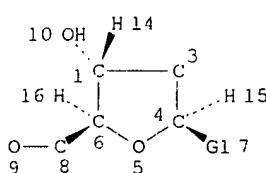
NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L8 58210 SEA FILE=REGISTRY SUB=L4 SSS FUL L6

L14 STR

Subset #2



Hy @11 Hy @13

VAR G1=11/13

NODE ATTRIBUTES:

CONNECT IS E3 RC AT 1

CONNECT IS E2 RC AT 3

CONNECT IS E3 RC AT 4

CONNECT IS E3 RC AT 6

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 11

GGCAT IS PCY UNS AT 13

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E4 C E2 N AT 11

ECOUNT IS E5 C E4 N AT 13

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 14

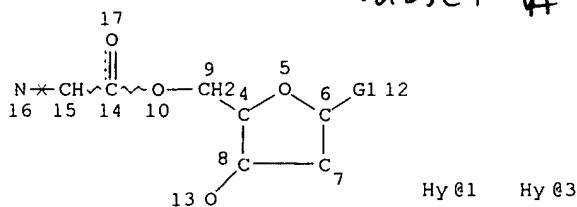
STEREO ATTRIBUTES:

STEREO DEFAULT ABSOLUTE

NUMBER OF CHIRAL CENTERS IS 3

L16  
L2762 SEA FILE=REGISTRY SUB=L8 SSS FUL L14  
STR

Subset #3 amino acid side chain



VAR G1=1/3

NODE ATTRIBUTES:

CONNECT IS E3 RC AT 4  
 CONNECT IS E3 RC AT 6  
 CONNECT IS E2 RC AT 7  
 CONNECT IS E3 RC AT 8  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS MCY UNS AT 1  
 GGCAT IS PCY UNS AT 3  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E4 C E2 N AT 1  
 ECOUNT IS E5 C E4 N AT 3

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE

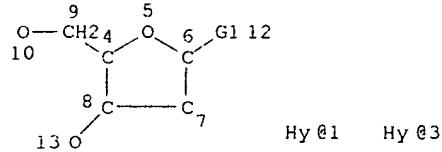
L29      268 SEA FILE=REGISTRY SUB=L8 SSS FUL L27  
L30      0 SEA FILE=REGISTRY ABB=ON PLU=ON L29 AND L16

=> d que 134

L4 153171 SEA FILE=REGISTRY ABB=ON PLU=ON OC4/ES(P)((NCNC2-NCNC3/ES)) *parent set*  
OR (NCNC3/ES)

L6 STR

*subset #1*



Hy @1 Hy @3

VAR G1=1/3

NODE ATTRIBUTES:

CONNECT IS E3 RC AT 4

CONNECT IS E3 RC AT 6

CONNECT IS E2 RC AT 7

CONNECT IS E3 RC AT 8

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 1

GGCAT IS PCY UNS AT 3

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E4 C E2 N AT 1

ECOUNT IS E5 C E4 N AT 3

GRAPH ATTRIBUTES:

RSPEC I

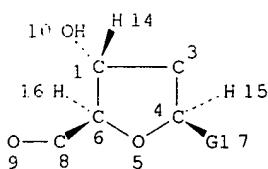
NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

L8 58210 SEA FILE=REGISTRY SUB=L4 SSS FUL L6

L14 STR

*subset #2*



Hy @11 Hy @13

VAR G1=11/13

NODE ATTRIBUTES:

CONNECT IS E3 RC AT 1

CONNECT IS E2 RC AT 3

CONNECT IS E3 RC AT 4

CONNECT IS E3 RC AT 6

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 11

GGCAT IS PCY UNS AT 13

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E4 C E2 N AT 11

ECOUNT IS E5 C E4 N AT 13

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 14

STEREO ATTRIBUTES:

STEREO DEFAULT ABSOLUTE

NUMBER OF CHIRAL CENTERS IS 3

REYES 09/371,747

L16 62 SEA FILE=REGISTRY SUB=L8 SSS FUL L14  
L31 STR SUBSET=L14

#### NODE ATTRIBUTES:

```
CONNECT IS E3 RC AT 1
CONNECT IS E2 RC AT 3
CONNECT IS E3 RC AT 4
CONNECT IS E3 RC AT 6
CONNECT IS E2 RC AT 17
CONNECT IS E2 RC AT 18
CONNECT IS E3 RC AT 19
CONNECT IS E3 RC AT 20
CONNECT IS E3 RC AT 21
CONNECT IS E3 RC AT 22
CONNECT IS E2 RC AT 23
CONNECT IS E2 RC AT 24
CONNECT IS E2 RC AT 25
CONNECT IS E1 RC AT 26
DEFAULT MLEVEL IS ATOM
DEFAULT ELEVEL IS LIMITED
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## GRAPH ATTRIBUTES:

## RSPEC I

NUMBER OF NODES IS 21

#### STEREO ATTRIBUTES:

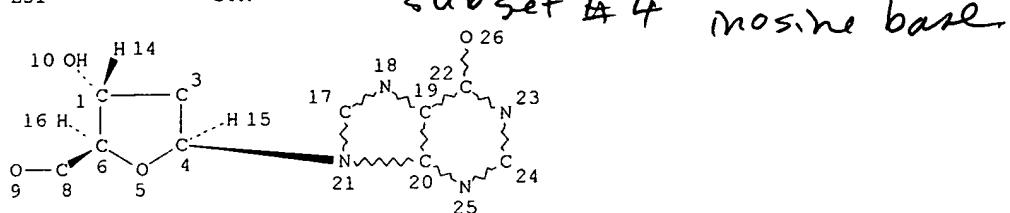
STEREO ATTRIBUTES:  
STEREO DEFAULT ABSOLUTE  
NUMBER OF CHIRAL CENTERS IS 3

L33 1 SEA FILE=REGISTRY SUB=L16 SSS FUL L31  
L34 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L33

SEARCHED BY SUSAN HANLEY 305-4053

Page 9

L16 62 SEA FILE=REGISTRY SUB=L8 SSS FUL L14  
 L31 STR



## NODE ATTRIBUTES:

CONNECT IS E3 RC AT 1  
 CONNECT IS E2 RC AT 3  
 CONNECT IS E3 RC AT 4  
 CONNECT IS E3 RC AT 6  
 CONNECT IS E2 RC AT 17  
 CONNECT IS E2 RC AT 18  
 CONNECT IS E3 RC AT 19  
 CONNECT IS E3 RC AT 20  
 CONNECT IS E3 RC AT 21  
 CONNECT IS E3 RC AT 22  
 CONNECT IS E2 RC AT 23  
 CONNECT IS E2 RC AT 24  
 CONNECT IS E2 RC AT 25  
 CONNECT IS E1 RC AT 26  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RSPEC I  
 NUMBER OF NODES IS 21

## STEREO ATTRIBUTES:

STEREO DEFAULT ABSOLUTE  
 NUMBER OF CHIRAL CENTERS IS 3  
 L33 1 SEA FILE=REGISTRY SUB=L16 SSS FUL L31  
 L34 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L33